

FIG. 1

100 OPTICAL TRANSMISSION SYSTEM  
(FOR SHORT-HAUL APPLICATIONS)

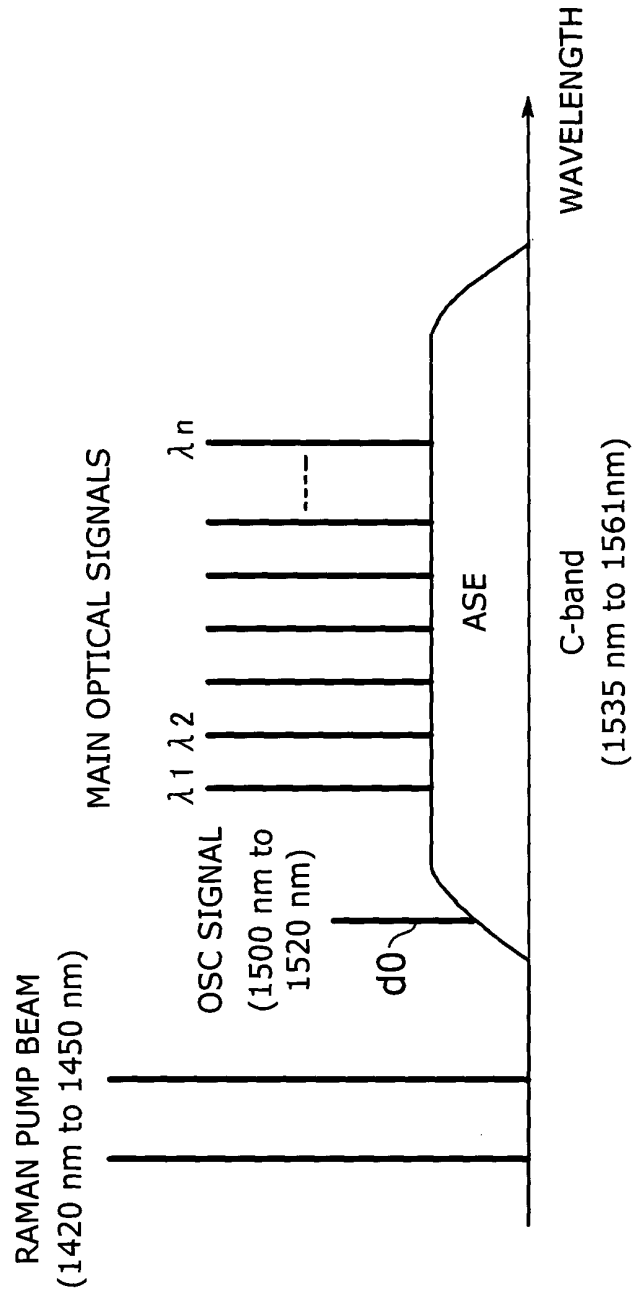


FIG. 2

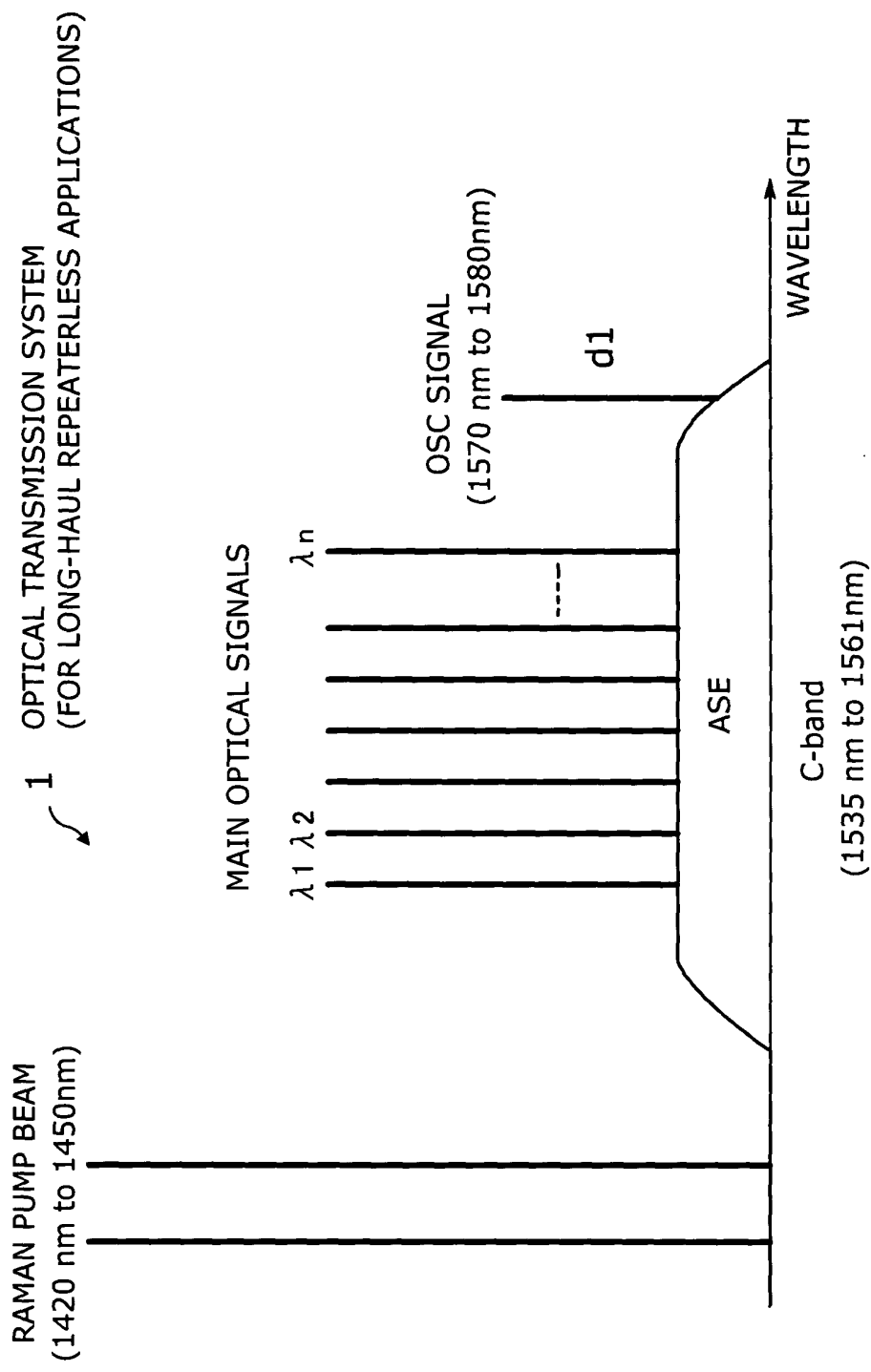


FIG. 3

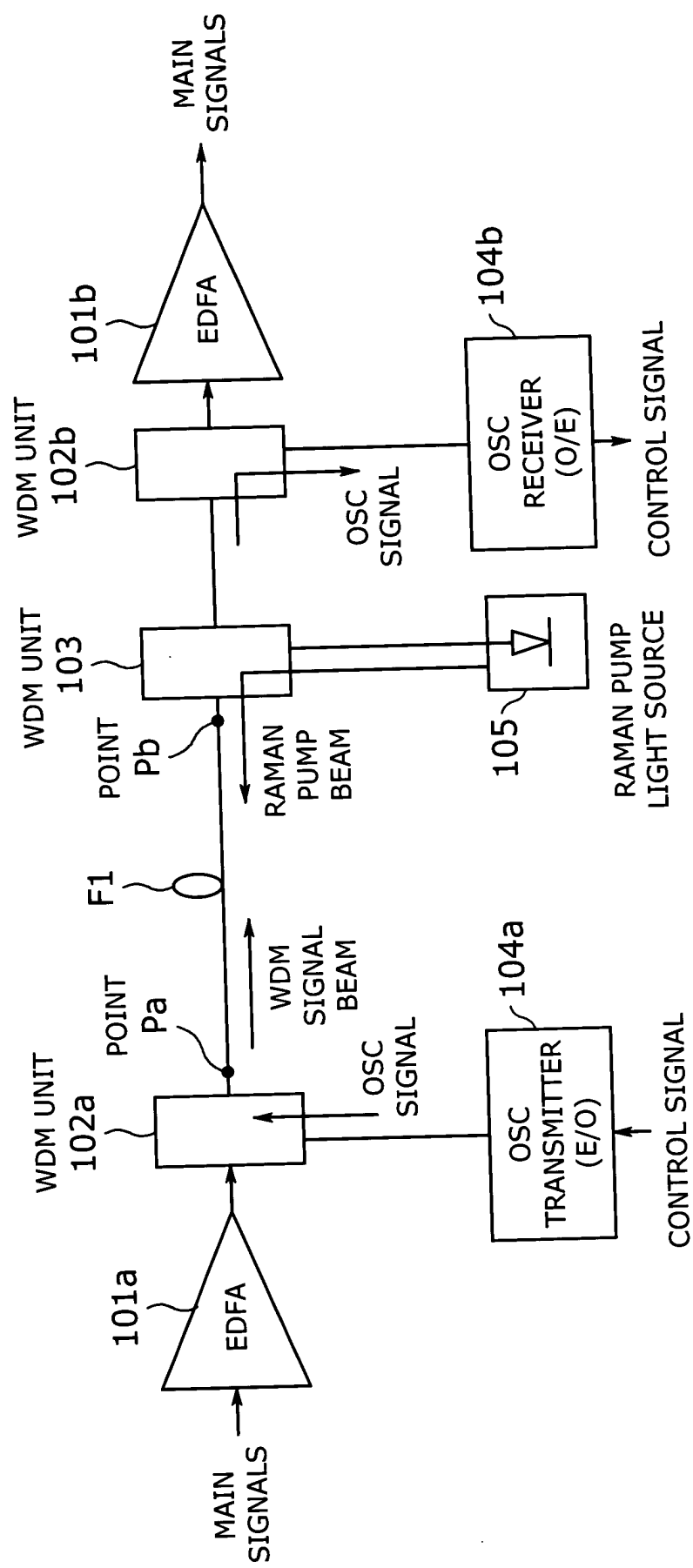


FIG. 4

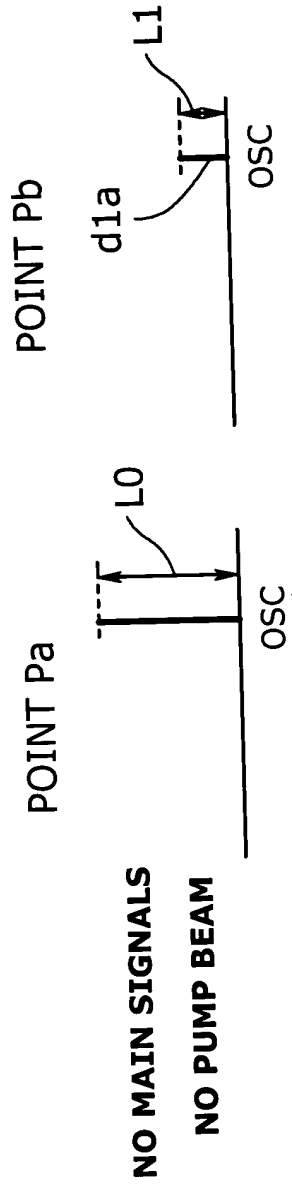
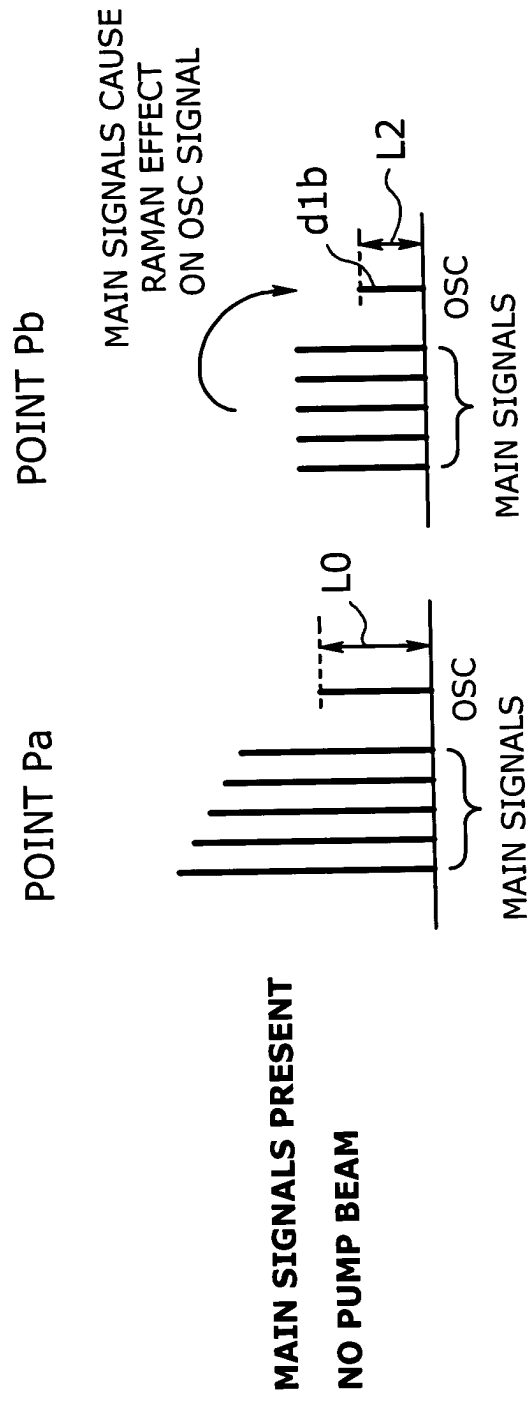
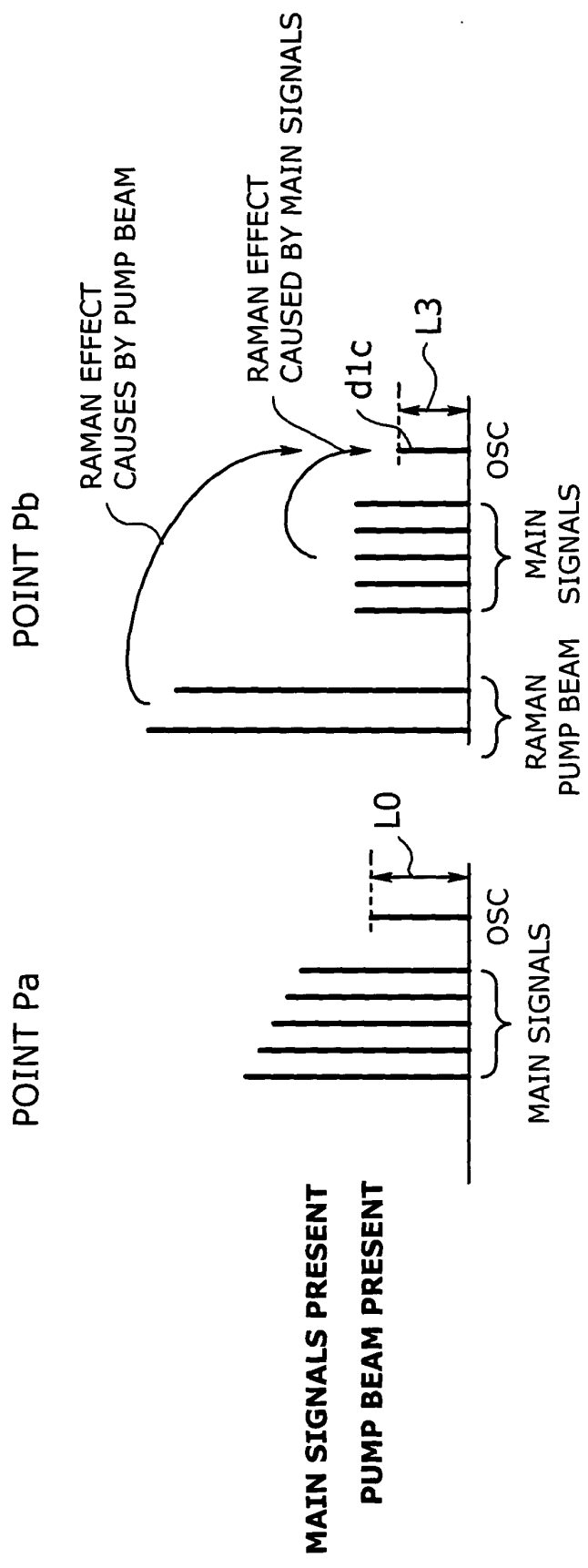


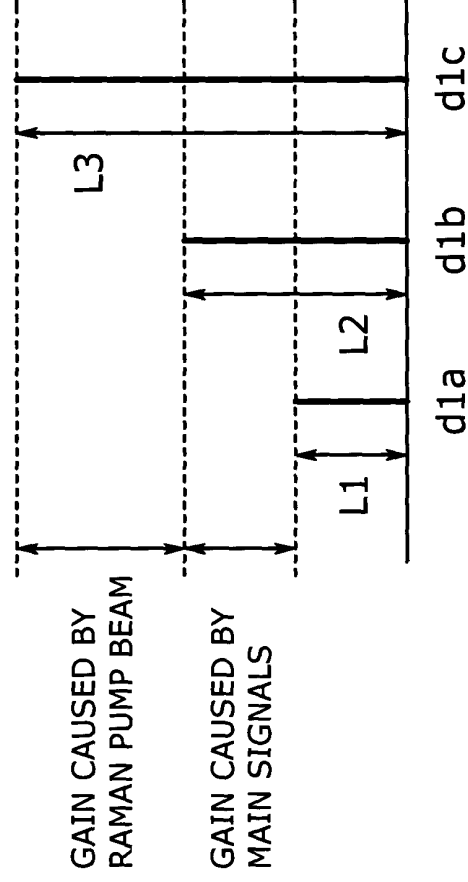
FIG. 5



**FIG. 6**



**FIG. 7**



L1: NO AMPLIFICATION (NO COMPENSATION FOR TRANSMISSION LINE LOSS)

L2: LEVEL L1 + AMPLIFICATION EFFECT OF MAIN SIGNALS

L3: LEVEL L1 + AMPLIFICATION EFFECT OF MAIN SIGNALS AND RAMAN PUMPING LIGHT

FIG. 8



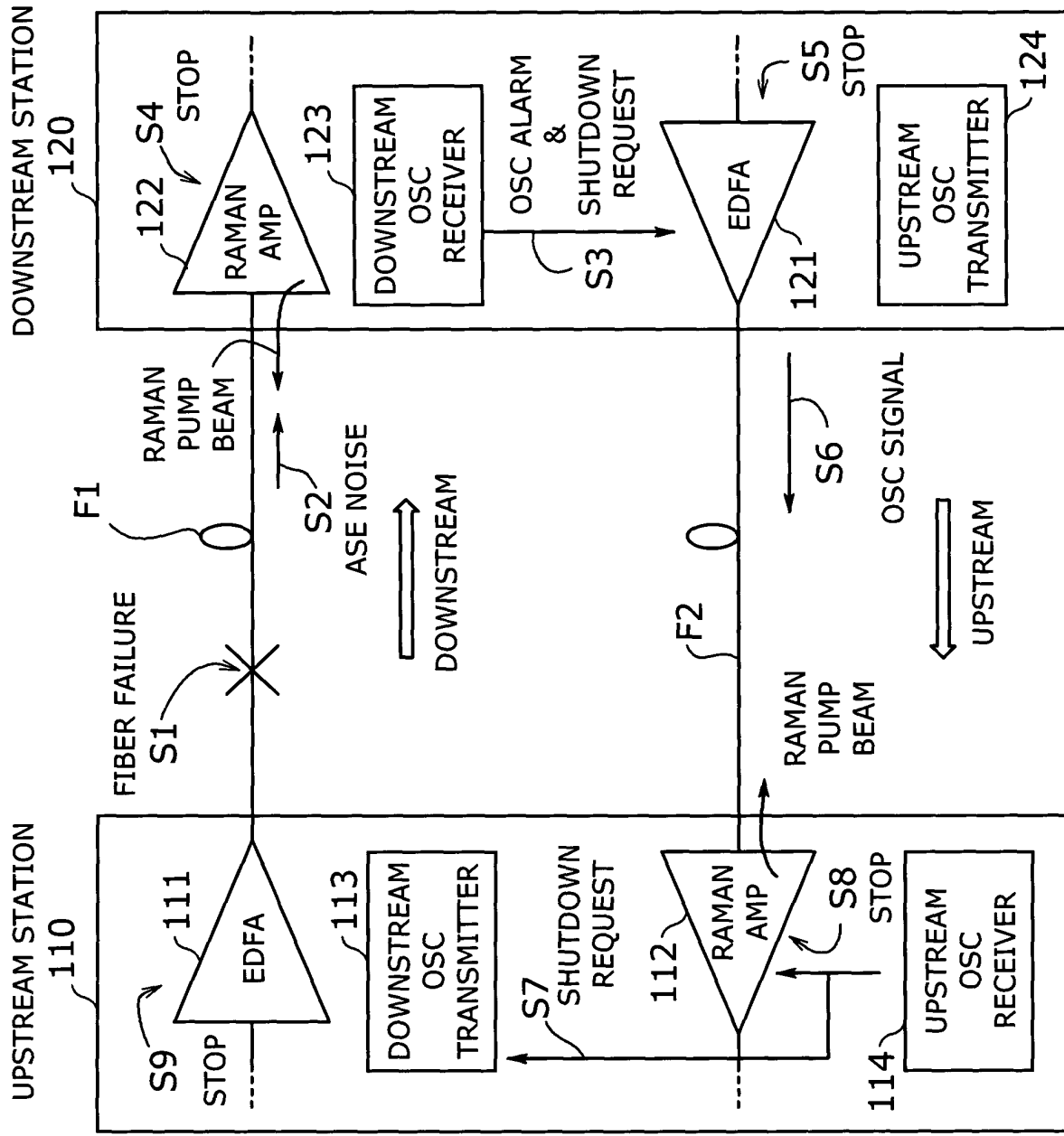


FIG. 9

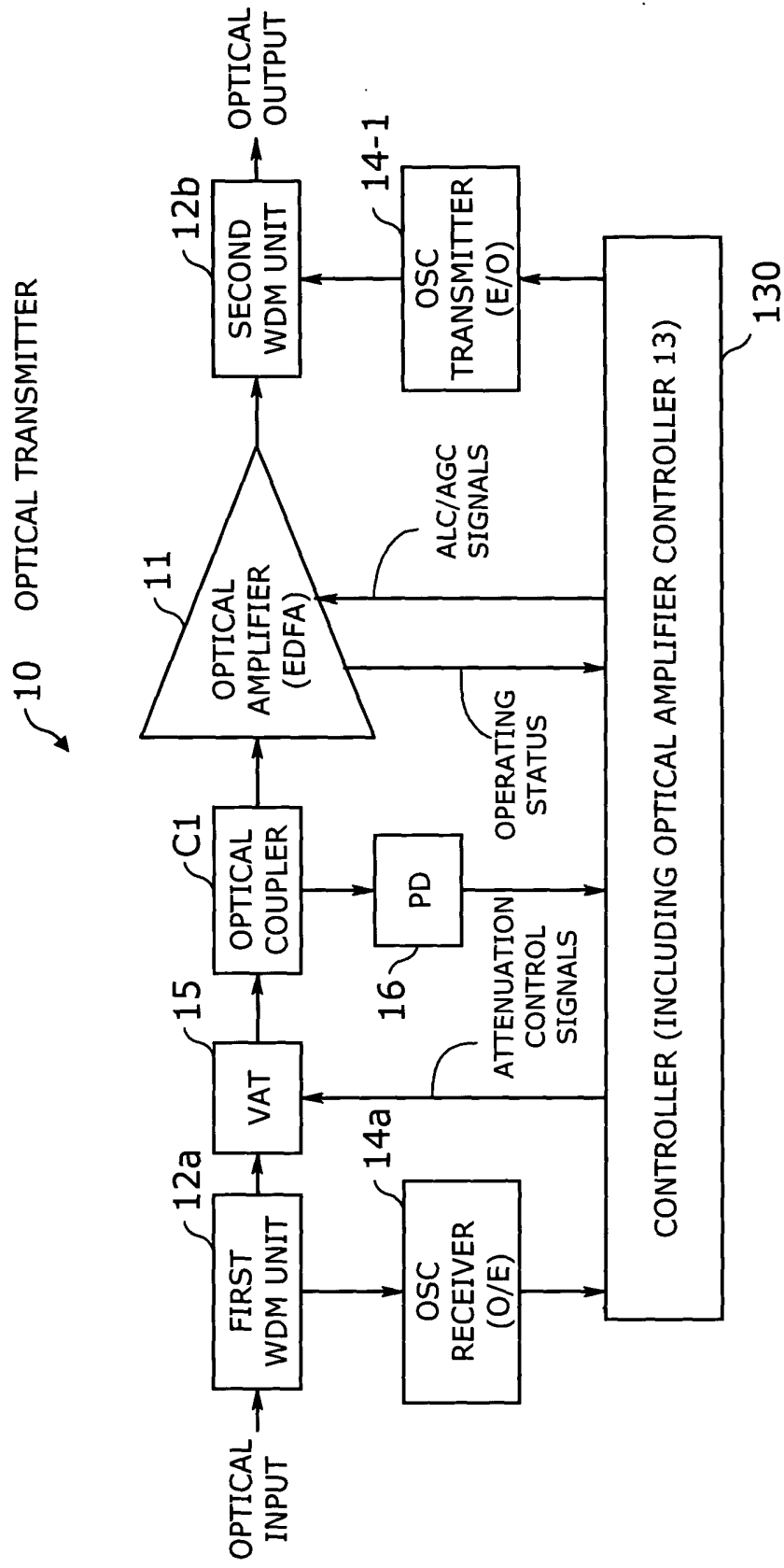


FIG. 10

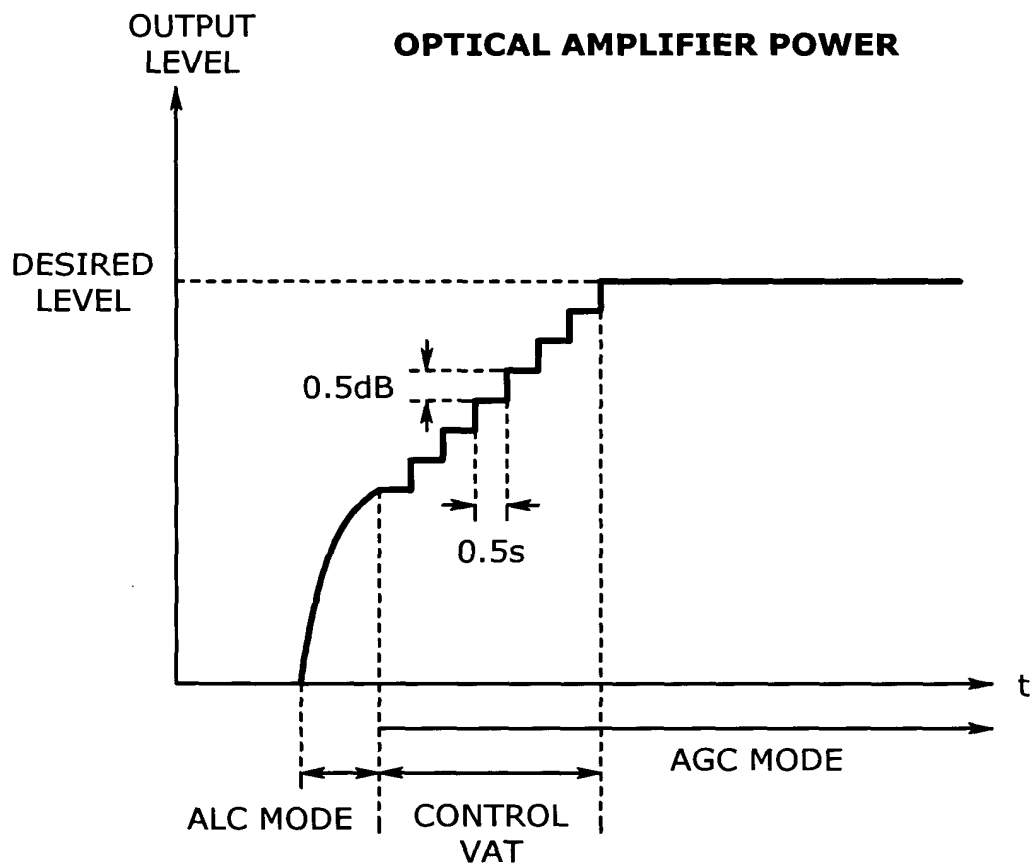
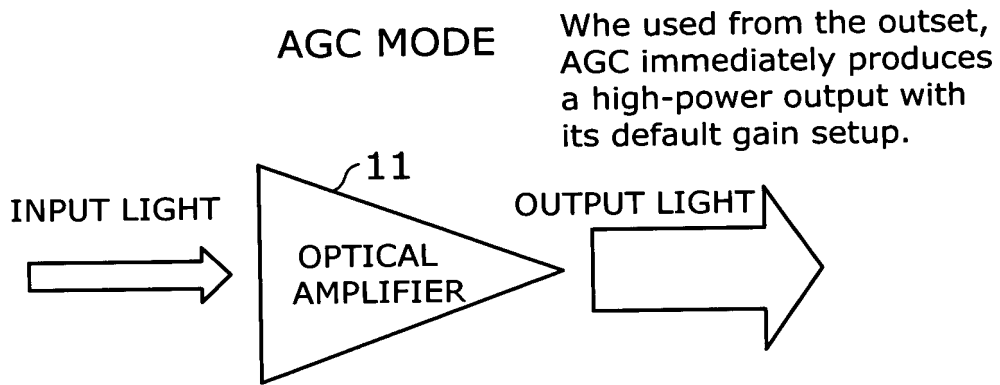
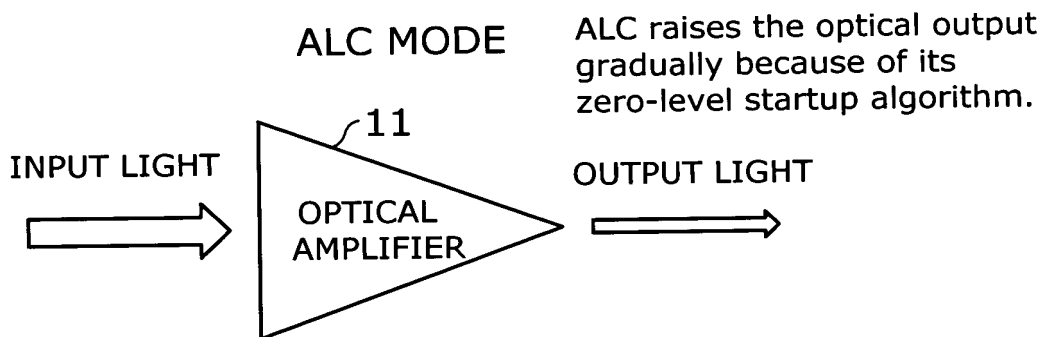


FIG. 11



**FIG. 12(A)**



**FIG. 12(B)**

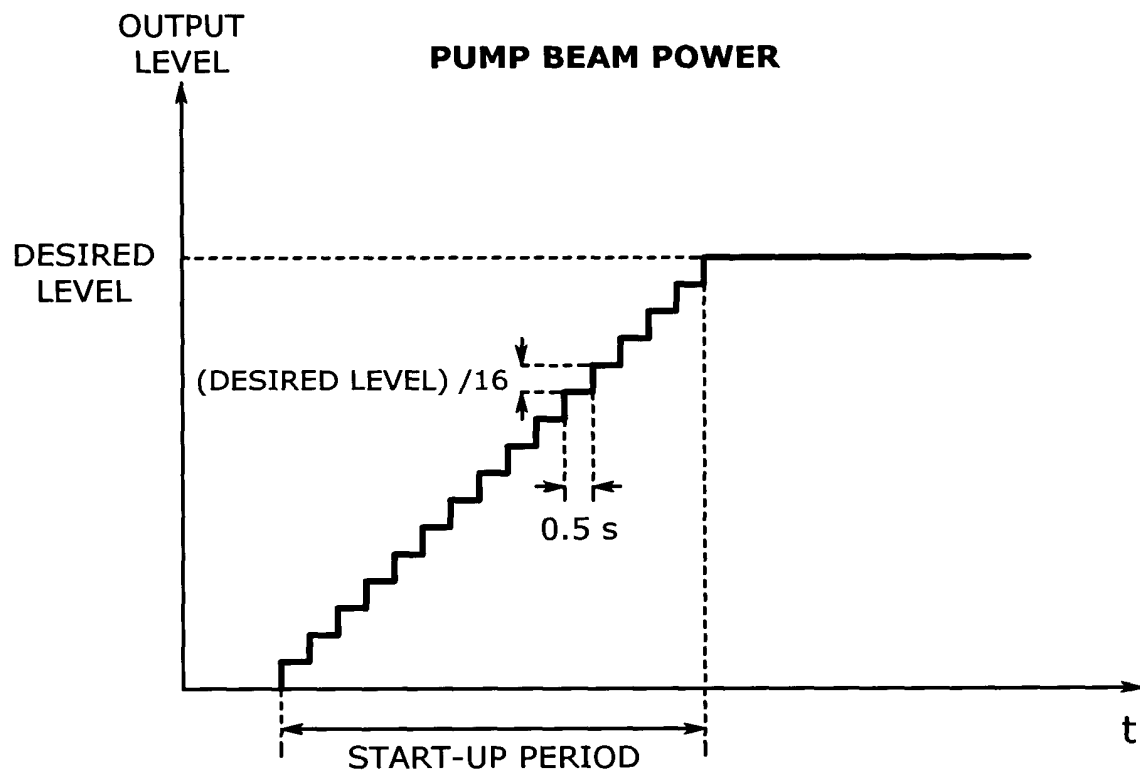


FIG. 13

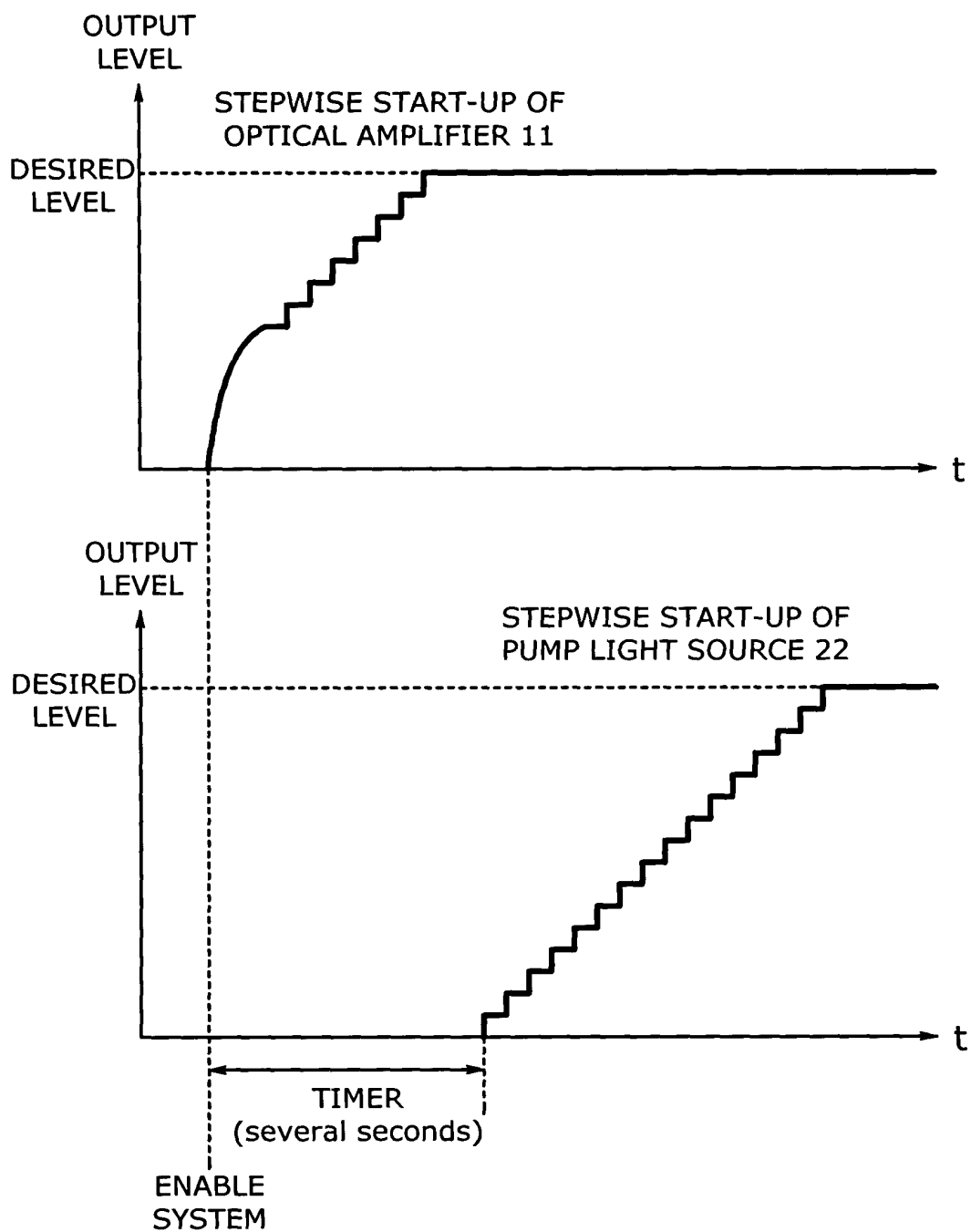


FIG. 14

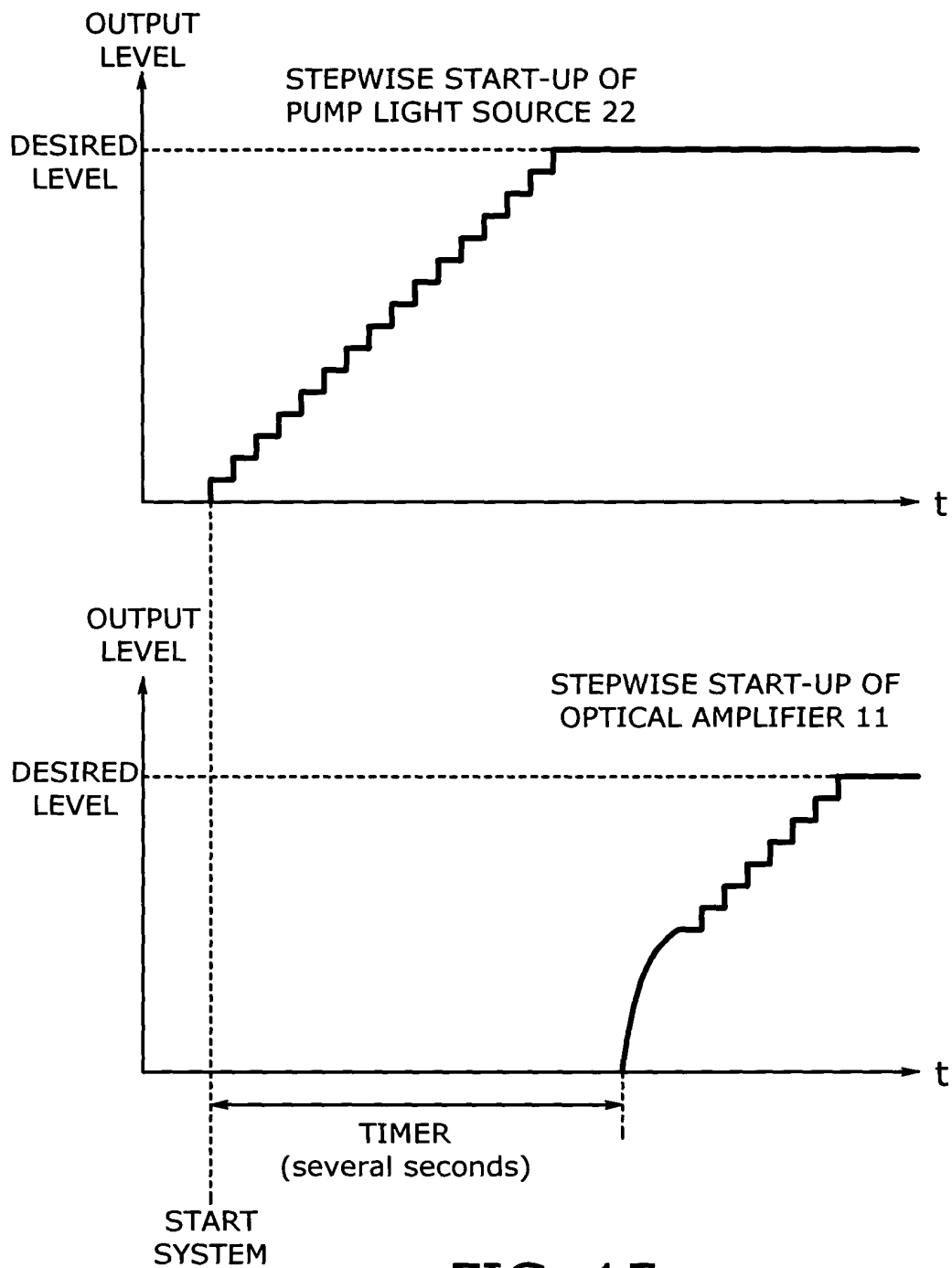


FIG. 15

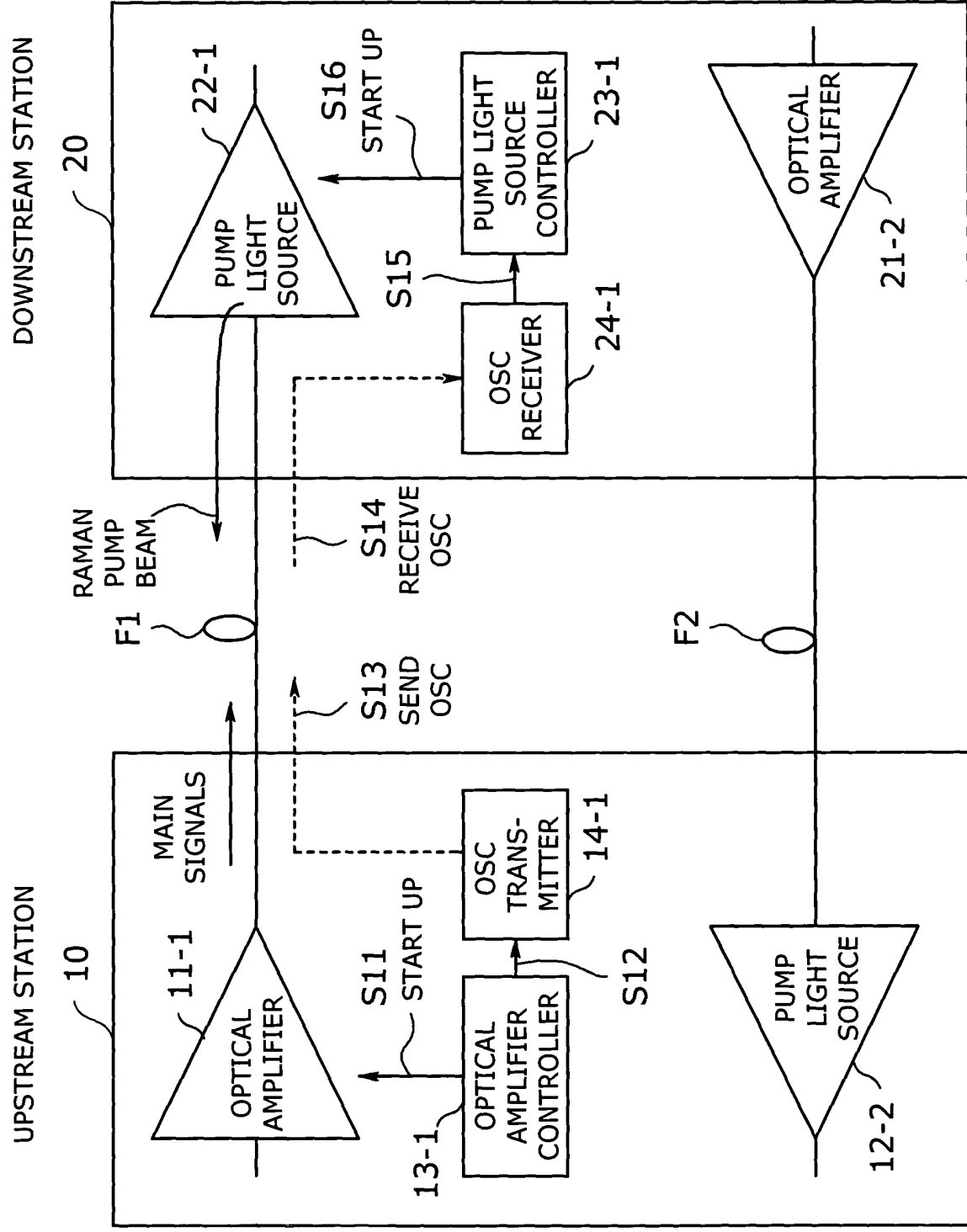


FIG. 16



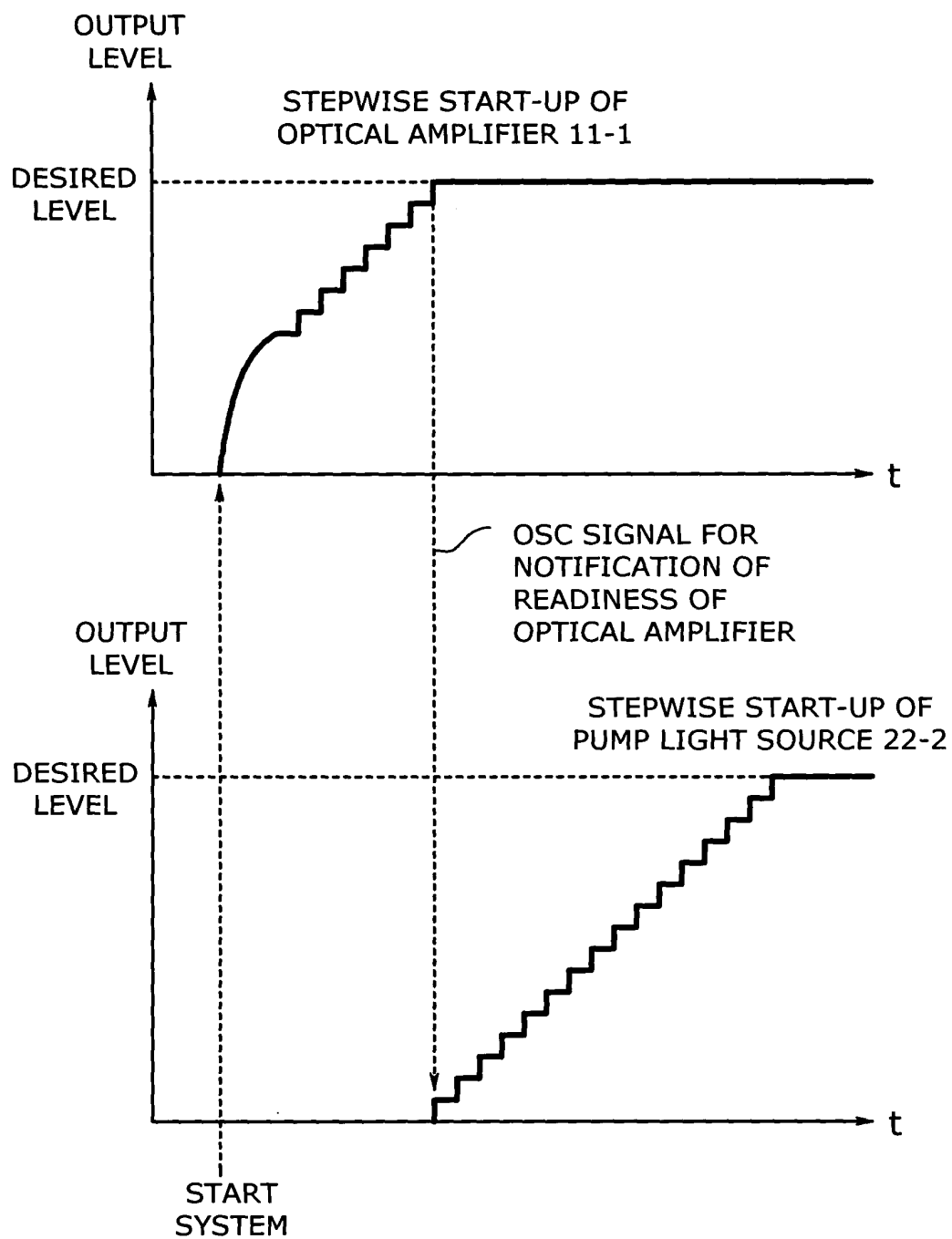


FIG. 17

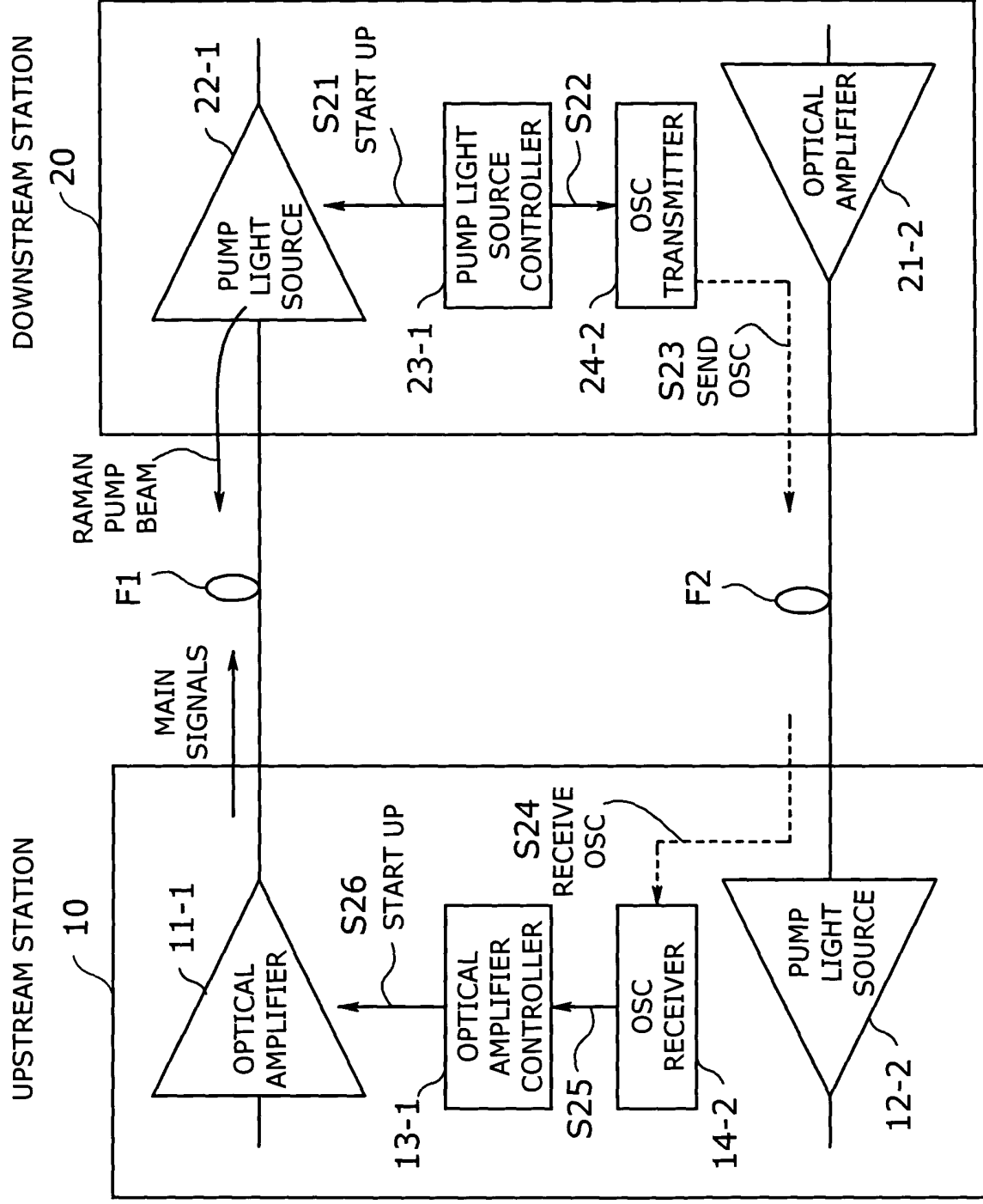


FIG. 18

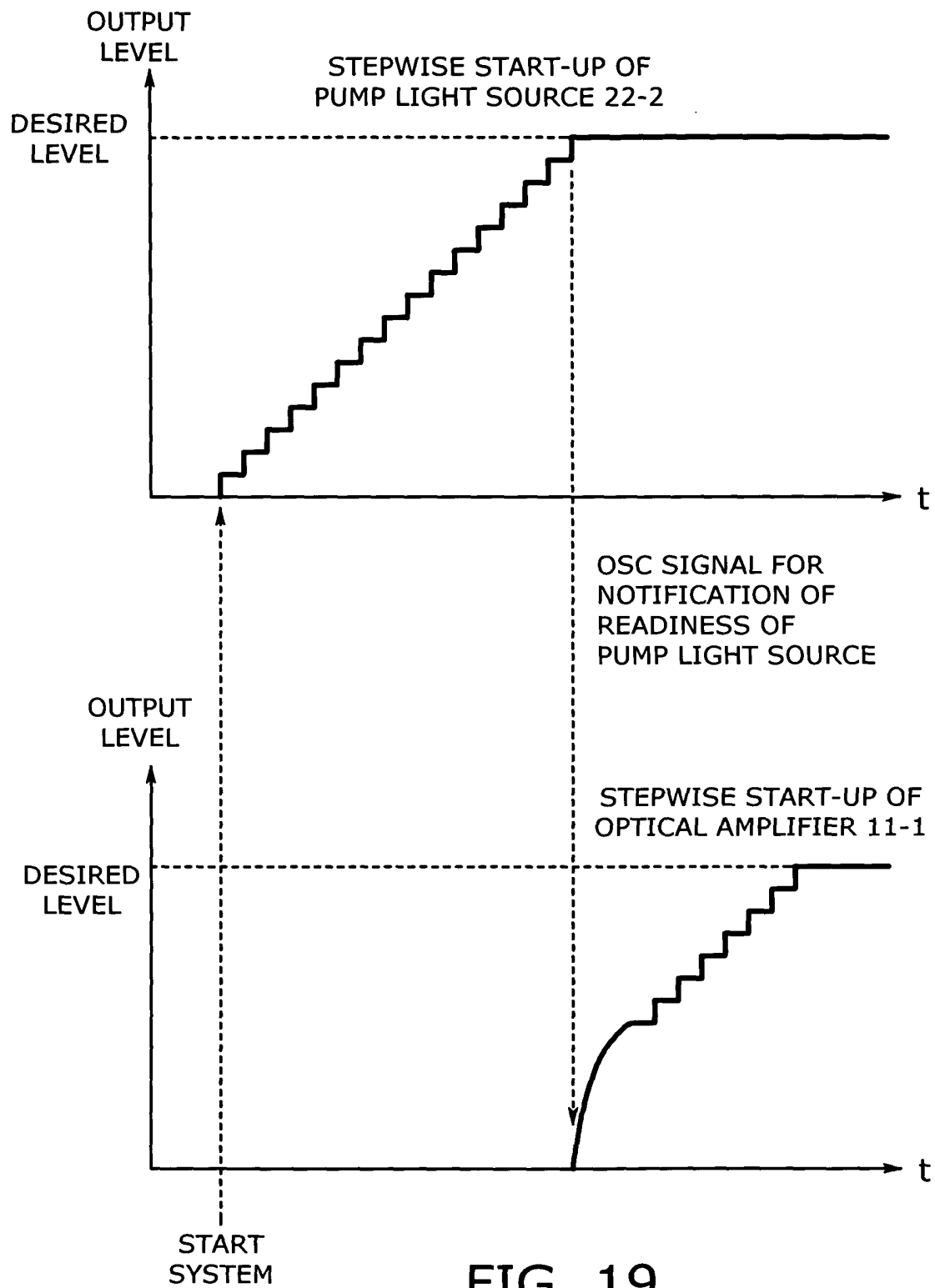


FIG. 19

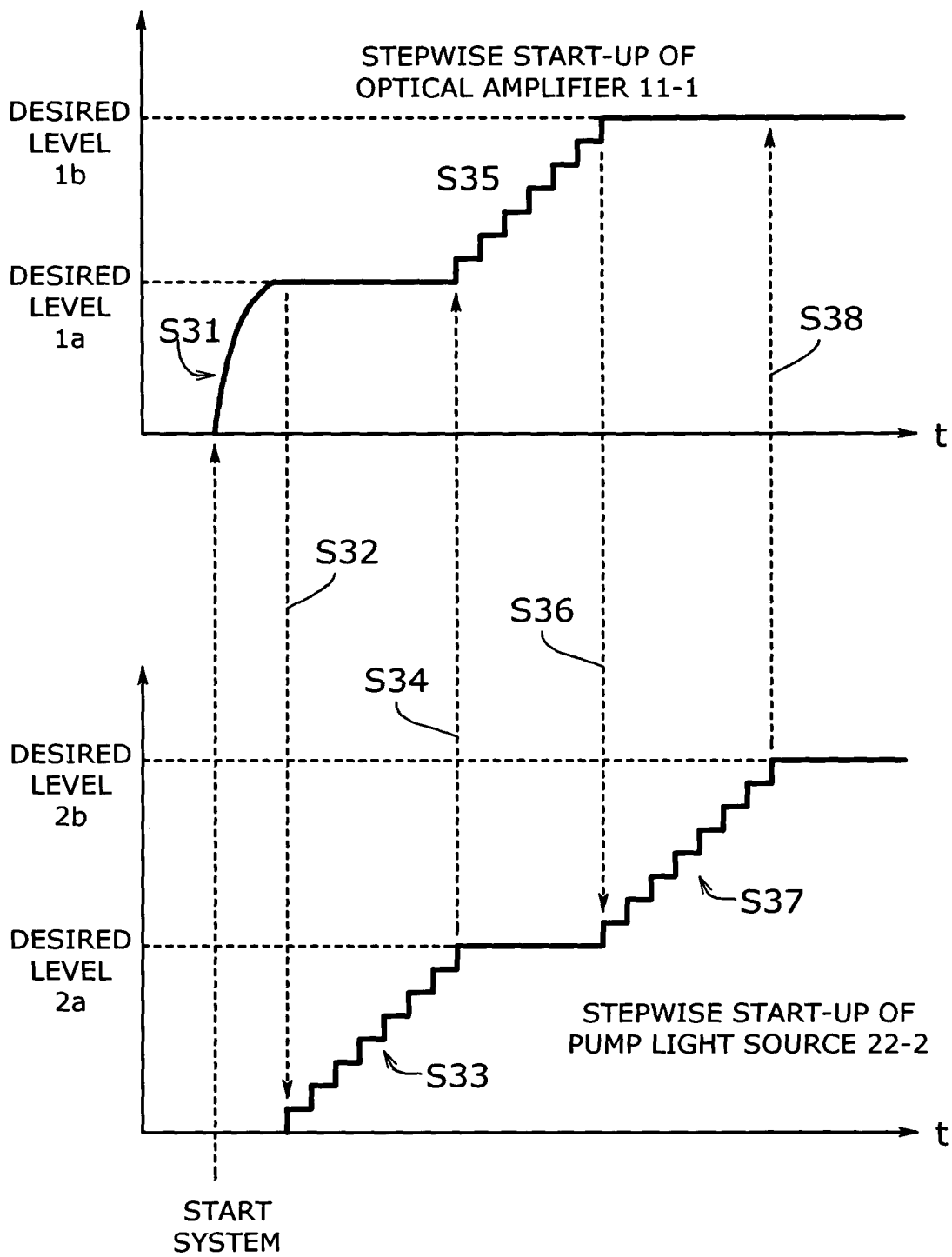


FIG. 20

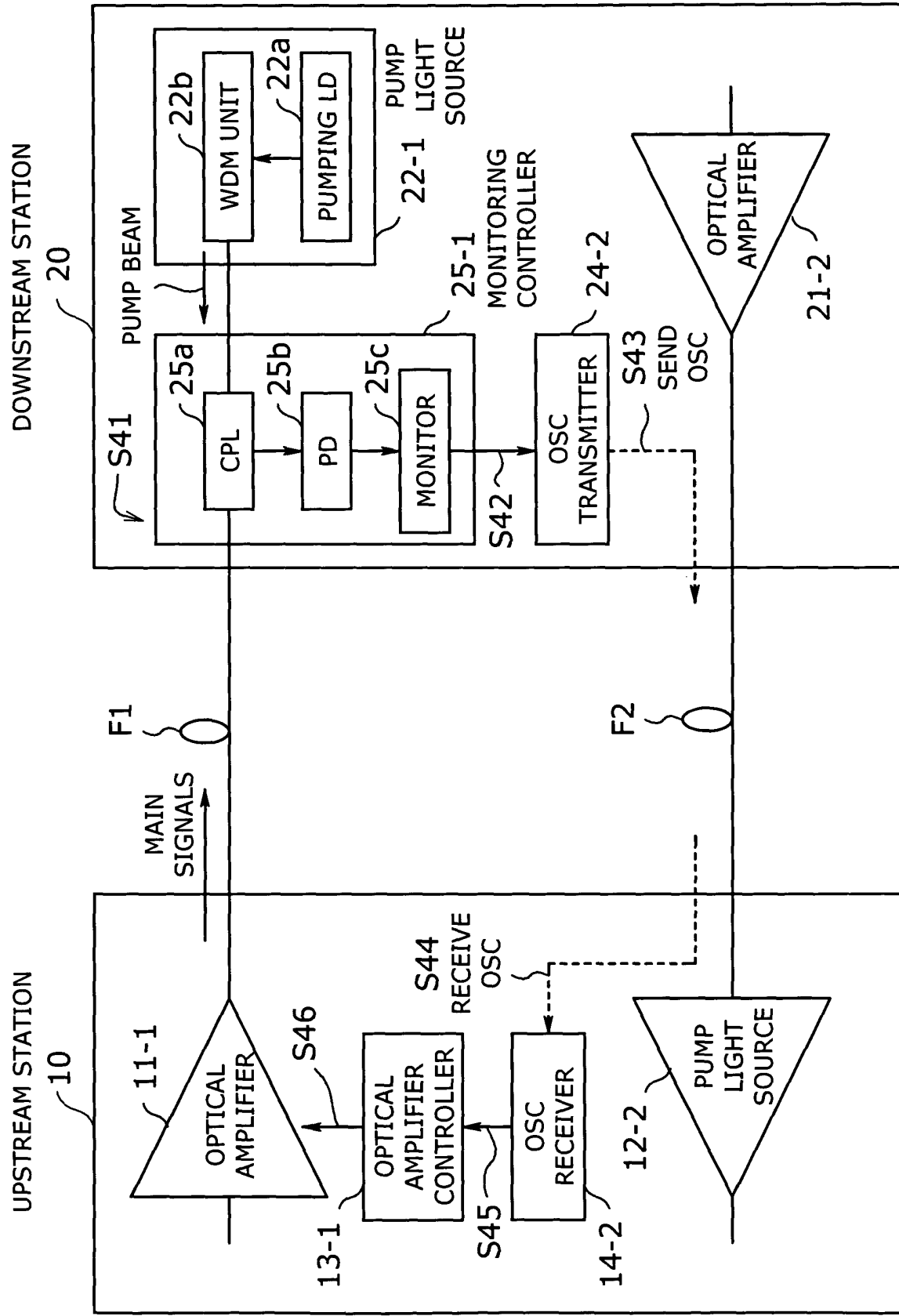


FIG. 21

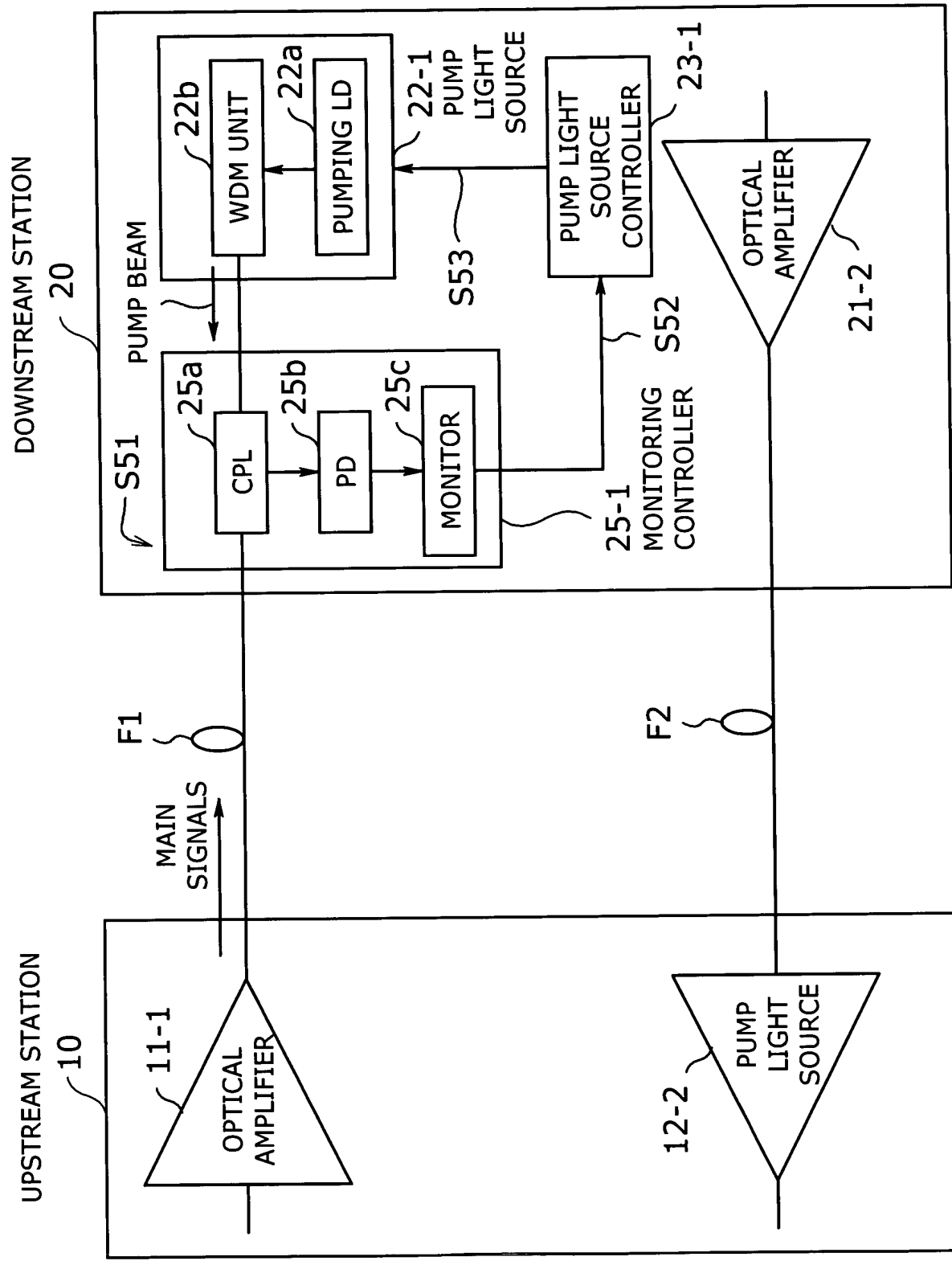


FIG. 22

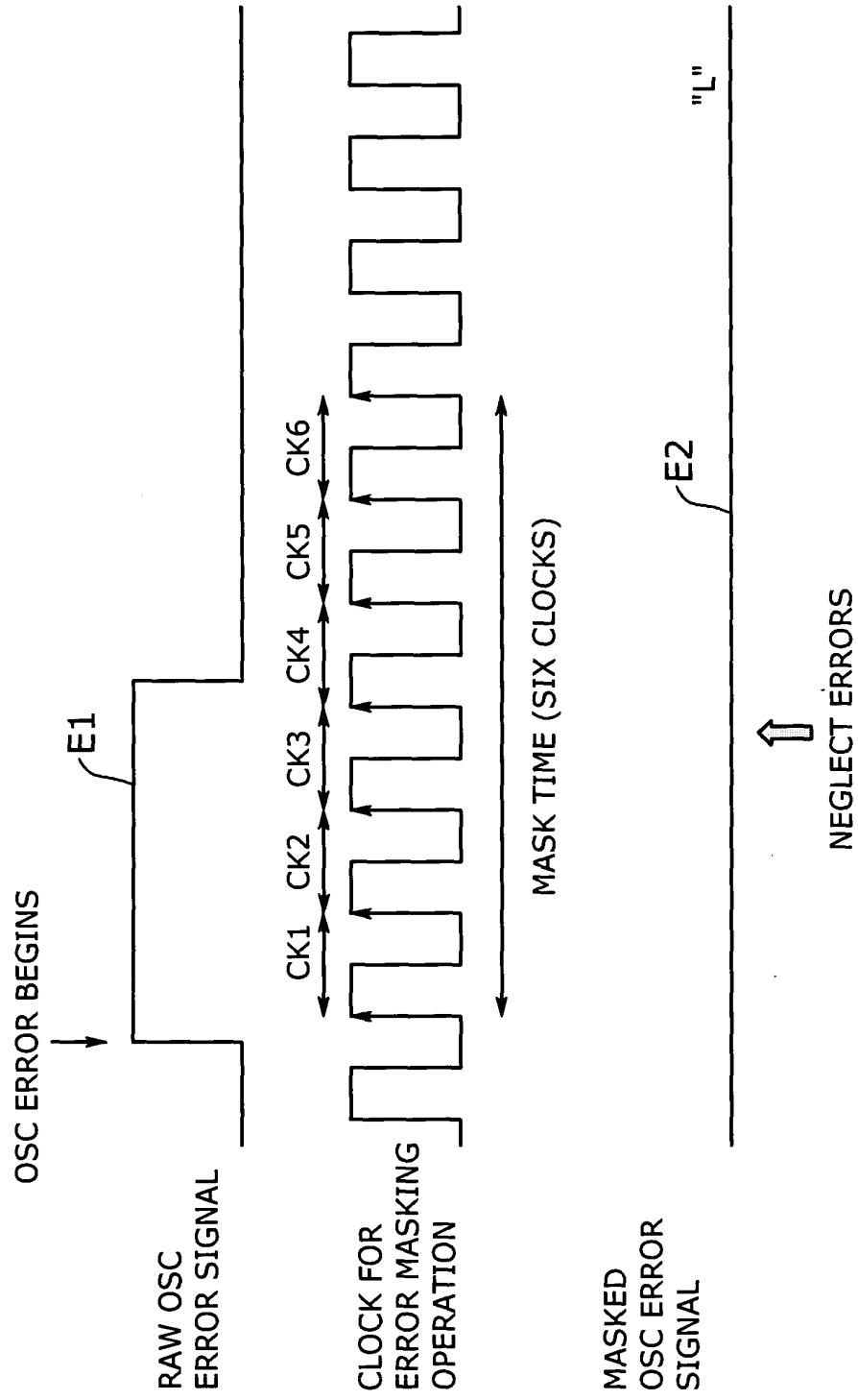


FIG. 23

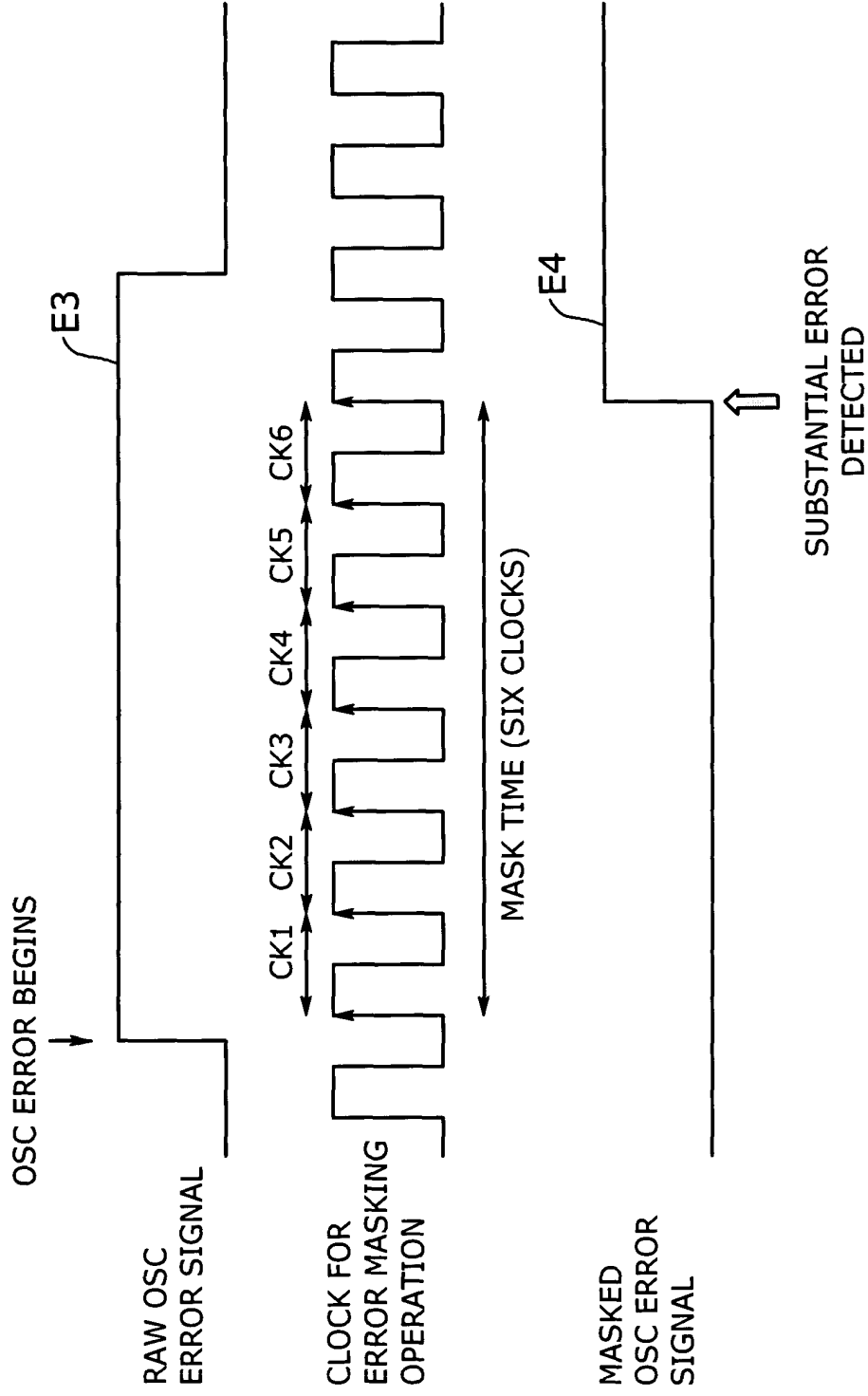


FIG. 24



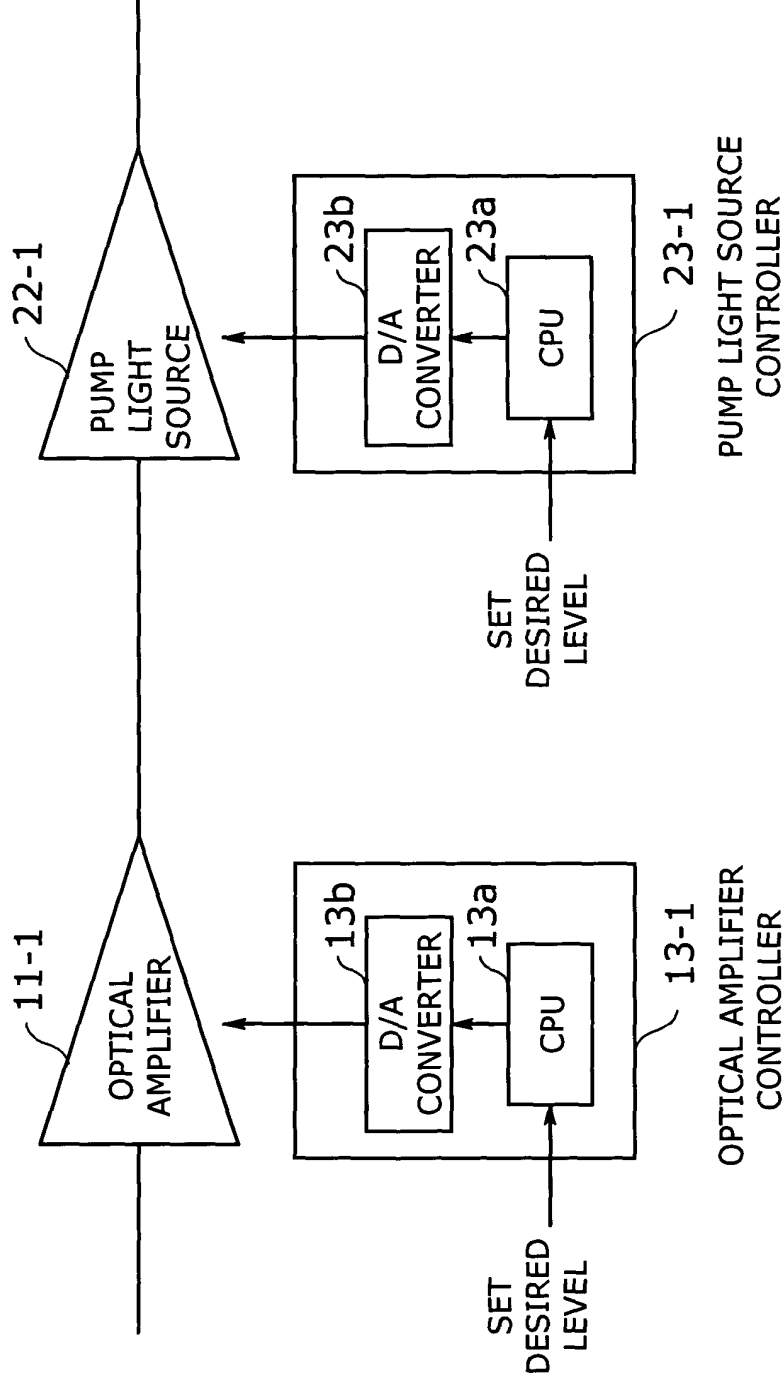


FIG. 25

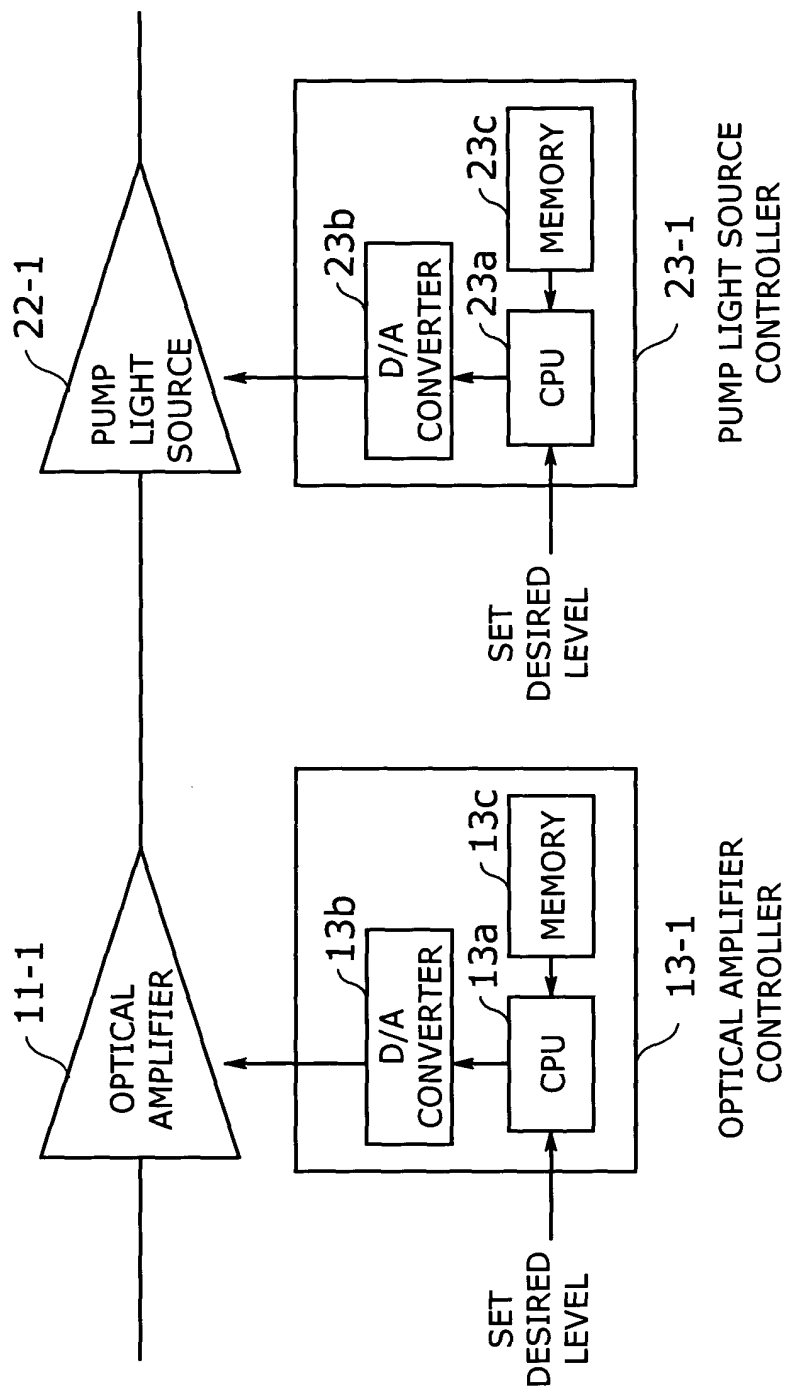


FIG. 26